

BOWKER, 1680. 19
AN
ALMANACK
FOR THE
Year of our Lord God, 1680.
BEING
Bissextile or Leap year.

Containing the Motions of the Sun, Moon,
Planets, and Fixed Stars, the Aspects of the
Planets, and inclination of the Air.
The time of High-water at *London-bridge*
every day in the Year: And also in 55 other
Ports and Havens about ENGLAND.

WITH
A *Table* of CHRONOLOGY in a New
Mode; and divers other necessary things per-
tinent to the compleating of a Diary or Day-book, suitable
to all mens occasions.

Hereunto is added a Continuation of the brief
View of Astronomy, and the Refutation of the *Copernican*
Opinion concerning the Earths Motion.

Calculated properly for the Meridian of *London*,
And may generally serve the two Famous Islands of
GREAT BRITAIN and IRELAND

By JAMES BOWKER *Astronomer*.

LONDON, Printed by *Tho. James* for the
Company of STATIONERS. 1680.

The Common Notes and Moveable Feasts for this
Year 1680. according to the Accounts

Julian, or
English,

9
9
D C
9
Feb. 22
April 11
May 16
May 20
May 30
June 6
Novem. 28

The Golden Number
The Epact
The Dominical Letters
The Circle of the Sun
Shrove-Sunday
Easter-day
Rogation Sunday
Ascension day
Whitsunday
Trinity-Sunday
Advent Sunday

Gregorian, or
Foreign,

9
29
G f
9
3 March
21 April
26 May
30 May
9 June
16 June
1 December

No Marriage without a Licence.

From { The beginning of the Year till January 14.
Septuagesima to Shrove-Sunday.
Rogation Sunday to Trinity Sunday,
Advent Sunday to the end of the Year.

V E N U S, will this year be our Morning
Star till the 26 of August, and from thence
our Evening Star to the end of the Year.

The

The Beginning, Ending, and Returns of the Terms.

Return Days, or Days of Essoyn.	Days of Except.	Returns Brevium	Days of Appearance.
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Hilary-Term begins *January 23*, and ends *Febr. 12.*

<i>Mich. Hill.</i>	<i>Jan. 20</i>	<i>21</i>	<i>22</i>	<i>23</i>
<i>Quind. Hill.</i>	<i>Jan. 27</i>	<i>28</i>	<i>29</i>	<i>31</i>
<i>Crast. Purif.</i>	<i>Feb. 3</i>	<i>4</i>	<i>5</i>	<i>6</i>
<i>Mich. Purif.</i>	<i>Feb. 10</i>	<i>11</i>	<i>12</i>	<i>12</i>

Easter-Term begins *April 23*, ends *May 24.*

<i>Quinq. Pasch.</i>	<i>April 26</i>	<i>27</i>	<i>28</i>	<i>28</i>
<i>Tues. Pasch.</i>	<i>May 3</i>	<i>4</i>	<i>5</i>	<i>6</i>
<i>Wed. Pasch.</i>	<i>May 10</i>	<i>11</i>	<i>12</i>	<i>13</i>
<i>Quinq. Pasch.</i>	<i>May 17</i>	<i>18</i>	<i>19</i>	<i>20</i>
<i>Crast. Ascens.</i>	<i>May 21</i>	<i>22</i>	<i>23</i>	<i>24</i>

Trinity-Term begins *June 11*, ends *June 30.*

<i>Crast. Trin.</i>	<i>June 7</i>	<i>8</i>	<i>9</i>	<i>11</i>
<i>Mich. Trin.</i>	<i>June 14</i>	<i>15</i>	<i>16</i>	<i>17</i>
<i>Quind. Trin.</i>	<i>June 21</i>	<i>22</i>	<i>23</i>	<i>24</i>
<i>Tues. Trin.</i>	<i>June 28</i>	<i>29</i>	<i>30</i>	<i>30</i>

Michaelmas-Term begins *Octob. 23*, ends *Nov. 23.*

<i>Tues. Mich.</i>	<i>Octob. 20</i>	<i>21</i>	<i>22</i>	<i>23</i>
<i>Wed. Mich.</i>	<i>Octob. 27</i>	<i>29</i>	<i>29</i>	<i>30</i>
<i>Crast. Anim.</i>	<i>Nov. 3</i>	<i>4</i>	<i>5</i>	<i>6</i>
<i>Crast. Mart.</i>	<i>Nov. 12</i>	<i>13</i>	<i>15</i>	<i>15</i>
<i>Mich. Mart.</i>	<i>Nov. 19</i>	<i>20</i>	<i>21</i>	<i>22</i>
<i>Quind. Mart.</i>	<i>Nov. 26</i>	<i>27</i>	<i>29</i>	<i>29</i>

The Exchequer opens eight days before any Term begins, except
Trinity, before which it opens but four days.

Goole goes to Law for Couzen Ganders Land,
And Fox the Lawyer takes the Cause in hand :
Who (for his Counsel) taketh Fees of either,
And in the end leaves neither worth a Feather.
Now comes the Term, and Judement may proceed,
Fools they fell out, and Beggars they agreed.

A Table shewing the time of High-water in all the Ports below-mentioned.

Ho.	Hours and Minutes to be added.		The Names of the Ports.	Ho.	M.
	Ho.	M.			
1	0	49	Greenborough, Southampton, Portsmouth,	0	0
2	1	38	Rochester, Meldon, Blacktail,	0	45
3	2	26	Gravesend, Dover, Blackness, Silly,	1	30
4	3	15	Dundee, St. Andrews, Lisbon, Lucas,	2	15
5	4	3	London, Tinnmouth, Amsterdam, Rotterdam,	3	0
6	5	53	Barwick, Flushing, Flamborough,	3	45
7	6	41	Batamoor, Corke, Severn, Callice,	4	30
8	7	10	Falmouth, Humber, New Castle,	5	15
9	8	19	Plimouth, Hull, Lin, St. Davids,	6	0
10	9	8	Bristol, Start-point, Waterford,	6	45
11	10	56	Milford, Bridgewater, Lonsdend,	7	30
12	11	45	Portland, Harflew, Dublin,	8	15
13	12	34	Pool, Isle of Man, Dunbar, Diepe,	9	0
14	1	23	Needles, Orford, South and N. Fosclands,	9	45
15	2	11	Yarmouth, Dover, Harwich,	10	30
16	3	0	Ric. Wnchelsev. Colshot.	11	15

Ho.	Hours and Minutes to be added.		The Names of the Ports.	Ho.	M.
	Ho.	M.			
17	1	0	In the Table following, you have the Moons age every day of the year; which being known, seek the Moons age in this Table, and see what hours and minutes stand against it, those hours and minutes being added to the hours and minutes which stand against the name of the place you would know the time of High-water at, will give you the time of High-water at that place.		
18	2	49			
19	3	38			
20	4	26			
21	5	15			
22	6	3			
23	7	53			
24	8	41			
25	9	30			
26	10	19			

Example
If you would know what time it will be High-water at Gravesend upon the 1 of January, look in the following Table, and against the 1 of January, you shall find the Moon is 10 days old: wherefore find 10 days in this Table under (Moons age) and against it you shall find 8 h. 8 m. which being added to 1 h. 30 m. (the hours and minutes standing against Gravesend) the sum is 9 h. 38 m. at which time it will be High-water at Gravesend on the 1 of January afternoon. But if the hours and minutes added together exceed 12 hours, you must cast away 12 hours, and the time of High-water will remain. So on the 30 of January, the Moon being 9 days old, the hours and minutes against 9 days old are 7 h. 19 m. which added to 10 h. 30 m. (the hours and minutes standing against Dover) make 17 h. 49 m. from which take 12 h. and there remains 5 h. 49 m. at which time it will be High-water at Dover the 30 of January.

*Within the narrow confines of this Page,
 You have (for every day) fair Cynthia's Age;
 Which had, in fifty five Ports, it decrees
 Th' alternate motion of the restless Seas.*

A Table of the Moons Age.

	Ja.	Fe.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.
1	10	11	10	12	13	1	●	15	19	19	20	2
2	11	12	11	13	14	●	16	17	20	20	21	21
3	12	13	12	●	●	16	17	18	21	21	22	22
4	13	●	13	15	16	17	18	19	22	22	23	23
5	14	15	●	16	17	18	19	20	23	23	24	24
6	15	16	15	17	18	19	20	21	24	24	25	25
7	16	17	16	18	19	20	21	22	25	25	26	26
8	17	18	17	19	20	21	22	23	26	26	27	27
9	18	19	18	20	21	22	23	24	27	27	28	28
10	19	20	19	21	22	23	24	25	28	28	29	29
11	20	21	20	22	23	24	25	26	29	29	●	●
12	21	22	21	23	24	25	26	27	●	●	1	1
13	22	23	22	24	25	26	27	28	1	2	2	2
14	23	24	23	25	26	27	28	29	2	3	3	3
15	24	25	24	26	27	28	●	3	3	4	4	4
16	25	26	25	27	28	●	●	4	4	5	5	5
17	26	27	26	28	29	1	1	5	5	6	6	6
18	27	28	27	●	●	2	2	6	6	7	7	7
19	28	29	28	1	1	3	3	7	7	8	8	8
20	29	●	●	2	2	4	4	8	8	9	9	9
21	●	1	1	3	3	5	5	9	9	10	10	10
22	1	2	2	4	4	6	6	10	10	11	11	11
23	2	3	3	5	5	7	7	11	11	12	12	12
24	3	4	4	6	6	8	8	12	12	13	13	13
25	4	5	5	7	7	9	9	13	13	14	14	14
26	5	6	6	8	8	10	10	14	14	15	15	15
27	6	7	7	9	9	11	11	15	15	16	16	16
28	7	8	8	10	10	12	12	16	16	17	17	17
29	8	9	9	11	11	13	13	17	17	18	18	18
30	9	10	10	12	12	14	14	18	18	19	19	19
31	10	11	11	13	13	●	●	19	19	20	20	20

A Compendious CHRONOLOGY.

Since	A LL things were of GOD created good	5619
	Noah ascends the Ark to avoid the Flood	3943
	GOD the Promise made to Abraham	2607
	Th' <i>Israelites</i> from <i>Egypt's</i> Bondage came	3175
	Solomon the Temple finished	2690
	King <i>Sedechias</i> was a Captive led	2170
	JESUS was of th' Blessed <i>Virgin</i> born	1680
	For <i>Mans</i> Sin he suffer'd Death and Scorn	1657
	First the <i>Saxons</i> slept on <i>English</i> ground	1125
	Here the <i>Danes</i> the like advantage found	848
	Norman <i>William</i> Britain over-power'd	614
	Maud the <i>English-Saxon</i> Blood restor'd	576
	Second <i>Henry</i> Ireland first assail'd	507
	Our First <i>Edward</i> hence the <i>7ms</i> expell'd	389
	<i>Tyler</i> said would have the Throne ascend'd	298
	He his Life with his <i>Rebellion</i> ended	298
	<i>Guns</i> (those Mortal Engines) first were found	300
	<i>Printing</i> made the world with Books abound	237
	<i>Philip</i> of <i>Spain</i> did with <i>Queen Mary</i> marry	126
	<i>Coaches</i> were invented men to carry	125
	Lightning last consum'd <i>S. Paul's</i> high Spire	119
	All the <i>Heavens</i> appeared on a Fire	106
	<i>Percy</i> and great <i>Nevil's</i> Insurrection	111
	<i>Gresham-Colledge</i> and th' <i>Exchange</i> erection	109
	<i>Drake</i> surround'd this our Globe of strife	103
	Pious <i>Gresham</i> did exchange this Life	101
	Saint <i>Domingo</i> Rantack'd was by <i>Drake</i>	95
	Then the <i>Spaniards</i> did (not fight) but quake	95
	Boasting <i>Spain's</i> Armado overthrow'n	92
	That <i>Tobacco</i> was in <i>England</i> known	87
	<i>Cales</i> was from the <i>Spaniards</i> stoutly torn	84
	CHARLES the First was at <i>Durfermlin</i> born	80
	JAMES of <i>Scotland</i> the <i>English</i> Crown possess'd	78
	He th' <i>Allegiance Oath</i> upon us prest	75

	Fate reveal'd the Hellish Powder Plot	75
	We joyc'd that it succeeded not	74
	A Great Plague on <i>London</i> Heaven sent	55
	Then at <i>Oxford</i> sat the Parliament	56
	That the Duke of <i>Buckingham</i> was slain	52
	<i>England</i> did conclude a Peace with <i>Spain</i>	51
	Our Dread Sovereign first breath'd <i>Richmond</i> air	50
	Bishop <i>Laud</i> began <i>S. Paul's</i> Repair	46
	<i>Charles</i> the First advanc'd against the <i>Scot</i>	41
	The Lord <i>Stafford</i> stooped to the Block	39
	<i>Charles</i> his Royal Standard streaming stood	38
	<i>Keinton</i> Field was dy'd with English Blood	38
	Reverend <i>Laud</i> unto the Block did bow	36
	<i>Naseby</i> Field first own'd that fatal blow	35
	<i>Charles</i> the First left <i>Oxford</i> in disguise	34
	He unto the <i>Scots</i> became a Prize	34
	Martyr'd <i>Charles</i> receiv'd his fatal doom	32
	The Rump Voted Kingship burthensome	32
	<i>Cromwel</i> did Protectorship Usurp	28
	In a Whirlwind he was taken up	21
	Into <i>London</i> General <i>Monk</i> did come	21
	The secluded Members he brought home	20
	<i>Charles</i> the Second's coming to <i>White-Hall</i>	20
	Forthwith he a Parliament did call	20
	That the horrid Regicides were Try'd	20
	They at <i>Charing-Cross</i> most justly dy'd	20
	There appear'd three Comets in the Sky	15
	That the <i>English</i> made the <i>Dutch</i> Ships fly	15
	<i>Londons</i> last great Plague or Visitation	15
	<i>Holland</i> thrice beat by the <i>English</i> Nation	15
	(For our Sins) God in his dreadful Ire	
	<i>London</i> consumed by a dismal Fire	14
	By his Providence Omnipotent	
	Restor'd and built far more Magnificent	9
	Peace agreed 'twixt <i>English</i> and the <i>Dutch</i>	7
	The shrill Trumpet nois'd it to be such	7

January hath XXXI. days.

Full Moon the 5 day, 6 min. after 10 at night.

Last quarter the 13 day, at 7 at night.

New Moon the 21 day, at 1 in the Afternoon.

First quarter the 28 day, 19 min. past 7 in the morning.

Beware of Cold, to Bath or Bleed take heed,
A good warm Coat this Month thy Back will need.

1	a	New yea. day	21	v	19	23	57	h	4.2	☾	Some sudden	
2	b	Octav. Steph.	22		20	8	II	4	1.17	☾	storms of	
3	c	Meliorus	23		21	22	10	♂	0.33	☾	snow or rain.	
4	d	Cronia. k	24		22	6	☿	9	8.45	♂	☿ h ☾	
5	e	Ed. Confessor	25		24	19	55	♀	5.51	☿	☿ ☿ 4 da	
6	f	Twelf day	26		25	3	♂	36	h	3.39	☿	Turbulent air
7	g	Ced. B Lond.	27		26	16	6	♂	1.37	☾	☿ ☿ ☿ and	
8	a	Will. B. York	28		27	29	28	♂	4.29	☿	great winds.	
9	b	Adrian	29		28	11	m	59	♀	13.11	♂	☿ ☿ ☿
10	c	Paul Erem.	30		30	4	13	♀	0.17	☿	☿ ☿ ☿	
11	d	1 after Epiph.	1		31	6	13	h	3.18	☿	☿ ☿ ☿	
12	e	Archadius	2		31	18		♂	2.2	☾	☿ ☿ ☿	
13	f	Rheinoldus	3		33	29	50	♂	8.6	☿	☿ ☿ ☿	
14	g	Weddings i	4		34	11	m	36	♀	17.52	♂	☿ ☿ ☿
15	a	Mauritus	5		35	23	31	♀	24.21	☿	☿ ☿ ☿	
16	b	Marcellus	6		36	5	37	h	2.59	☿	☿ ☿ ☿	
17	c	Anthony Ab.	7		37	18		♂	2.32	☾	☿ ☿ ☿	
18	d	2 aft. Epiph.	8		38	0	v	44	♂	12.23	☿	☿ ☿ ☿
19	e	Wolstanus	9		39	13	50	♀	22.45	♂	☿ ☿ ☿	
20	f	Fab. & Seb.	10		40	27	18	♀	21.27	☿	☿ ☿ ☿	
21	g	Agnes V.	11		41	11	☿	8	h	2.51	☿	☿ ☿ ☿
22	a	Vincent	12		42	25	13	♂	3.5	☾	☿ ☿ ☿	
23	b	Term begins	13		43	9	☿	29	♂	16.20	☿	☿ ☿ ☿
24	c	Timothy	14		44	23	50	♀	27.49	♂	☿ ☿ ☿	
25	d	Conv. S P u	15		45	8	v	12	♀	21.59	☿	☿ ☿ ☿
26	e	Polycarpus	16		46	22	50	h	2.26	☿	☿ ☿ ☿	
27	f	Chrystom	17		46	6	☿	42	♂	3.43	☾	☿ ☿ ☿
28	g	Carol. Mg.	18		47	20	45	♂	20.17	☿	☿ ☿ ☿	
29	a	Si das	19		4	4	II	42	♀	3.2	☿	☿ ☿ ☿
30	b	L. Char. J. M	20		48	8	30	♀	24.55	☿	☿ ☿ ☿	
31	c	Alan.	21		49	2	☿	10			☿ ☿ ☿	

JANUARY. 1688.

JANUARY. Taketh the Name, either of Janus an ancient King of Italy, who for his wisdom and providence was painted with two Faces, the one looking back to the old year, and the other forward to the new: Or else it taketh the name of Janua a Gate, because it is the Gate or Entrance into the Year. The Saxons called this Month Wolf Monath, viz. Wolf Month. for that they were then in danger of being devoured by Wolves.

18	23	10	12	48	1) The Son of God obey'd his	11	d
28	04	2	11	36	Fathers will,	12	e
37	58	4	1	24	Was circumcis'd, and did the	13	e
47	57	4	2	12	Law fulfill.	14	c
47	56	4	5	3	2) Day 8 hours long.	15	a
67	55	4	6	3	5) Day breaks at 5 h. 50 m.	16	b
77	54	4	7	4	6) Twi-light ends 6 h. 10 m.	17	c
87	53	4	7	5	Day lengthened 40 m.	18	d
97	52	4	8	6	Sun rises S. E. by E. and sets	19	e
107	50	4	10	6	S. W. by S.	20	f
107	49	4	11	7		21	g
127	47	4	13	8		22	a
117	46	4	14	9		23	b
147	45	4	15	9	Day 8 hours and a half long.	24	c
157	44	4	16	10		25	d
167	42	4	18	11		26	e
177	41	4	19	12	South-arm of Crab So. at 12.	27	f
187	39	4	21	12		28	g
197	38	4	22	1		29	a
207	36	4	24	2	Day breaks at 5 h. 32 m.	30	b
217	34	4	26	3	Twi-light ends 6 h. 20 m.	31	c
227	32	4	28	3			Feet.
237	31	4	29	4	Heart of Hydra South at 12.	2	e
247	30	4	30	5	Day 9 hours long.	3	f
257	28	4	32	6		4	g
267	26	4	34	7	The G. dog rises achronically.	5	a
277	25	4	35	8		6	b
287	23	4	37	9	Day lengthened 1 ho. 36 m.	7	c
297	21	4	38	9		8	d
307	20	4	40	10	Day breaks 5 h. 17 m.	9	e
317	18	4	42	11	Twi-light ends 6 h. 43 m.	10	f

High-water at London-bridge.

Sun rises.

Sun sets.

February hath XXIX. days.

- Full Moon the 4 day, at 2 in the Afternoon.
- ☾ Last quarter the 12 day, at 4 in the Afternoon.
- New Moon the 20 day, at 1 in the Morning.
- ☾ First quarter the 26 day 36 min past 3 in the Afternoon.

*Warm Cloaths this Moneth are good, o.d Sack no less,
Always provided you avoid Excess.*

M.D.	W.D.	Fixed and Moveable Feasts and Terms.	The Suns Place.	The Moons Place.	The Planets Places.	The Planets Aspects and change of Air
1	D	4 after Epiph.	20 50	15 54	h 2.11	☾ Snow, Sleet,
2	e	Candlemas day	23 51	29 1	♄ 4.32	☾ and Cold
3	f	Blaise B. M	24 51	12 8	♂ 25.2	☉ ☽ ♃
4	g	Gilbertus	25 52	5 1	♀ 9.28	☾ Raw weather,
5	a	Agatha V.	26 52	37	♀ 0.34	☾ with Fogs and
6	b	Dorothy V.	27 53	59	h 2.1	☾ Sharp
7	c	Weddings out	28 53	9	♄ 5.18	☾ Apog.
8	D	Septuagesima	29 54	9	♂ 28.59	☾ Winds begin
9	e	Apollonia V.	30 54	26	♀ 14.55	☾ ☽ ♃
10	f	Scholastica V.	1 55	7 14	♀ 6.24	☾ ☽ h
11	g	Euphrosina	2 55	12 37	h 1.54	☾ the Month.
12	a	Terminends	3 55	1 31	♄ 6.6	☾
13	b	Ermenild Q.	4 55	13 36	♂ 2.56	☾ Hard Frost.
14	c	Valentine	5 5	24 57	♀ 20.28	☾ ☽ ☉
15	D	Sexagesima	6 56	39	♀ 12.56	☾ Very Cold
16	e	Julianus	7 57	21 46	h 1.00	☾ ☽ ☾
17	f	Finian	8 57	5 19	♄ 6.57	☾ ☽ ☾
18	g	Imeon	9 57	19 16	♂ 6.52	☾ More warm,
19	a	Acca B.	10 57	3 6	♀ 6.4	☾ ☽ ☾ but
20	b	Mildred V.	11 57	18 17	♀ 20.3	☾ very wet.
21	c	Cumbrea	12 57	3 1	h 1.48	☾
22	D	Quinquagesima	13 57	17 5	♄ 7.51	☾ Shrove Sund.
23	e	Policarp	14 57	2 36	♂ 10.49	☾ ☽ ☾
24	f	Shrove Tuesd.	15 57	17 9	♀ 1.44	☾
25	g	S. Matthias	16 57	1 21	♄ 27.39	☾ A Th wednesd.
26	a	Ember week	17 57	15 2	h 1.49	☾
27	b	Serulph B.	18 57	19 24	♄ 8.48	☾ ☽ h ☾ Fair
28	c	Oswald	19 57	3 33	♂ 14.44	☾ mild and
29	D	Quadragesim.	20 56	5 45	♀ 7.28	☾ temperate.

FEBRUARY. 1680.

FEBRUARY takes the Name, a Februis expiatoris, from certain expiatory Sacrifices, which the Romans in this Month offered to their God Februus, for purging of the Souls of the Dead, as they thought. The Saxons called it Sprout-Kele, because the Colewort (which they call Kele) in this Month yieldeth wholsom young Sprouts for their Nourishment.

H. M. H. M. H. M.					Incr. and Decr. of the days, with Southing of Stars and Planets			
07	17	4	43	12	28		11	G
17	16	4	44	1	20	Day 9 hours and an half long.	12	a
37	14	4	46	2	11	2) Sun rises E S E. sets W S W.	3	b
47	13	4	47	3	0		14	c
57	11	4	49	3	45		15	d
67	10	4	50	4	30		16	e
77	8	4	52	5	15	Day lengthened 2 h. 10 m.	17	f
87	6	4	54	6	0		18	g
97	4	4	56	6	45		19	a
107	2	4	58	7	30	Day breaks at 5 in the morn.	20	b
116	59	5	1	8	15	Day 10 hours long.	21	c
126	58	5	2	9	0	Twilight ends at 7 at night.	22	d
136	56	5	4	9	45		23	e
146	55	5	5	10	30		24	f
156	54	5	6	11	15		25	g
166	53	5	7	12	0	Day lengthened 2 h. 30 m.	26	a
176	51	5	9	12	45		27	b
186	49	5	11	1	30		28	c
196	46	5	14	2	15		29	d
206	44	5	16	3	0	Day 10 hours and half long.	30	e
216	42	5	18	3	52	20) Sun rises E. b. S. sets W. b. S.	2	f
226	40	5	20	4	42		3	g
236	38	5	22	5	35		4	a
246	35	5	25	6	26	Day breaks at 4 h. 30 m.	5	b
256	32	5	28	7	18	Twilight ends 7 h. 30 m.	6	c
266	30	5	30	8	10	Day 11 hours long.	7	d
276	27	5	33	9	2		8	e
286	24	5	36	9	53		9	f
296	22	5	38	10	45		10	a

High-water at London-bridge.

Sun sets.

Sun rises.

Day 10 hours and an half long.
2) Sun rises E S E. sets W S W.

Day lengthened 1 h. 10 m.

Day breaks at 5 in the morn.
Day 10 hours long.
Twilight ends at 7 at night.

Day lengthened 1 h. 38 m.

Day 10 hours and half long.
20) Sun rises E. b. S. sets W. b. S.

Day breaks at 4 h. 30 m.
Twilight ends 7 h. 30 m.
Day 11 hours long.

March hath XXXI. days.

- Full Moon the 5 day, 39 min. after 6 in the morning.
- Last quarter the 13 day, 55 min. after 9 in the morning.
- New Moon the 20 day, 20 min. after 10 in the Forenoon.
- First quarter the 26 day, 26 min. past 11 at night.

*Thy Blood afresh 'gins to increase again,
Purge, Bath and Bleed, thy Body to maint ain.*

1	d	David. B.	21	56	8	♂	43	h	1.52	♂	
2	e	Chad	22	56	21	♂	26	♂	9.34	♂	□ ♀
3	f	Lucius	23	56	3	♂	57	♂	17.52	♂	The Month
4	g	Adrianus	24	55	16	♂	18	♀	12.4	♂	begins with
5	a	Eusebius	25	55	28	♀	50	♀	12.44	♂	Wind, and
6	b	Frudiline	26	54	10	♂	32	h	1.59	♂	impetuous
7	c	Reminiscers	27	54	23	♂	27	♂	10.35	♂	☾ Apog.
8	d	Felix M.	28	53	4	♂	20	♂	21.47	♂	storms of
9	e	40 Martyrs	29	53	16	♀	8	♀	17.52	♂	rain and
10	f	Erimachus	0	52	27	♀	59	♀	21.34	♂	hail.
11	g	Gregory	1	52	9	♂	55	h	2.8	♂	☽ ☿
12	a	Olwin	2	51	22	♂	1	♂	11.37	♂	♂ ☿ ♀
13	b	Wigan	3	50	4	♂	7	♂	25.41	♂	More m Id
14	c	Oculi	4	50	16	♀	59	♀	23.42	♂	and temperate
15	d	Longinus	5	49	29	♀	58	♀	1.5	♂	☽ ☿
16	e	Alcede	6	48	13	♂	25	h	2.20	♂	Variable
17	f	Patrick	7	47	27	♂	20	♂	12.41	♂	♂ ♀ ☿ &
18	g	Edward	8	46	11	♂	42	♂	29.34	♂	uncertain (☾
19	a	Joseph	9	45	25	♀	27	♀	29.33	♂	☽ ☿ ☿ ☿
20	b	Cutbert	10	44	11	♂	29	♀	11.10	♂	☽ Eclipsed.
21	c	Lactare	11	43	26	h	38	h	2.34	♂	weather. (☾
22	d	Aphrodicius	12	42	11	♂	14	♂	13.46	♂	☽ ☿ ☿ ☿
23	e	Theodore	13	41	25	♂	40	♂	2.25	♂	☾ Perig.
24	f	Zacharias	14	40	11	♂	16	♀	5.25	♂	.
25	g	Annum. Mary	15	39	25	♀	30	♀	21.32	♂	☽ ☿
26	a	William	16	38	9	♂	16	h	2.51	♂	♂ ☿ ☿
27	b	Archibald	17	37	22	♂	41	♂	14.52	♂	The end of
28	c	Judica	18	36	5	♂	44	♂	7.17	♂	the Month
29	d	Victorian	19	34	18	♀	28	♀	11.20	♂	will be very
30	e	Patrone	20	33	0	♂	6	♀	4.49	♂	pleasant.
31	f	Adelm. B.	21	32	13	♂	15				

MARCH 1680.

MARCH, So called a Mart, of Mars the God of Battell; to whom this Month was dedicated by the ancient Romans. The Saxons call it Lenct-Monet, that is Length Month; because in this Month the days begins to exceed the nights in length: And hence cometh the Name of the Feast of Lent, because this Month the more part of that Feast faileth.

16	23	5	3	11	37	Day lengthened 3 ho. 40 m.	11	a
26	20	5	40	12	21	The Lyons Tail South at 12.	12	a
36	18	5	42	1	20		13	b
45	16	5	44	2	10	Day 11 hours and half long.	14	c
56	14	5	46	3	0	Day breaks 4 h. 12 m.	15	d
65	11	5	49	3	48	Twilight ends 7 h. 44 m.	16	e
76	9	5	51	4	36		17	f
86	7	5	53	5	24		18	g
95	5	5	55	6	12		19	a
105	3	5	57	7	0	The Sun rises due East,	20	b
116	0	6	0	7	48	Equal day and Night.	21	c
125	59	6	1	8	36	And sets due West.	22	d
135	57	6	3	9	24		23	e
145	56	6	4	10	12		24	f
155	54	6	6	11	0	Day breaks 3 ho. 50 min.	25	g
165	53	6	8	11	48	Twilight ends 8 h. 10 m.	26	a
175	50	6	10	12	36		27	b
185	48	6	12	1	24		28	c
195	46	6	14	2	12	Day 12 hours and half long.	29	d
205	44	6	16	3	0	First in G. Bears tail S. at 12	30	e
215	42	6	18	3	52		31	f
225	40	6	20	4	43	Sun due E. a quarter after 6 in	April	
235	39	6	21	5	35	the morning.	2	a
245	37	6	23	6	26	Day lengthened 5 ho. 10 m.	3	b
255	36	6	24	7	18	Day breaks 3 h. 25 m.	4	c
265	34	6	26	8	10	Twilight ends 8 h. 35 m.	5	d
275	32	6	28	9	2		6	e
285	30	6	30	9	53	Day 13 hours long.	7	f
295	28	6	32	10	45	The second in great Bears tail,	8	g
305	26	6	34	11	37	is South at 12.	9	a
315	24	6	36	12	28		10	b

April hath XXX. days.

- Full Moon the 3 day, 25 min. past 11 at night.
- Last quarter the 12 day, 6 min. before 1 in the morn.
- New Moon the 18 day, a quarter after 6 at night.
- First quarter the 25 day, 52 min. past 1 Afternoon.

If thou intend'st to purge, or bath, or bleed,
Of Learn'd Physicians counsel thou hast need.

1	h	Con. M. Mag.	22	V	30	23	m	20	h	3.15	☾	
2	a	Francis Con.	23		29	7	≈	20	h	16.13	☾	Sudden Show.
3	h	Richard	24		2	19	15		♂	11.52	☾	ers of Rain
4		Sunday	25		26	1m	7		♀	18.24	☾	Apog.
5	d	Vincentius	26		24	12	59		♀	13.4	☾	and Hail.
6	e	Ethelwold	27		23	24	51		h	3.36	☾	
7	f	Egesippus	28		21	6	46		h	17.22	☾	Great Wind.
8	g	Oosianus	29		20	8	48		♂	15.41	V	☾ ♀
9	a	Fri hstan	30		18	0	58		♀	24.22	☾	
10	h	Eschillus	1		16	13	20		♀	20.47	☾	Setled and
11	c	Easter day	2		15	25	57		h	4.0	☾	reasonable
12	d	Julius	3		13	8	≈	52	♀	18.31	☾	weather, with
13	e	Hermene gild	4		11	22	1		♂	19.29	V	morning Frost.
14	f	Tiburtius	5		9	5	≈	54	♀	0.21	V	☾ ♀ ☾
15	g	Trans. Of.	6		7	20	0		♀	26.34	☾	at greatest
16	a	Trans. Alb.	7		6	4	V	4	h	4.16	☾	dist. from ☾
17	h	Weddings In.	8		4	19	52		h	19.41	☾	☐ h ♀ ☾ ☾
18	c	Low Sunday	9		2	4	☾	44	♂	23.15	V	☾ ♀ ☾
19	d	Alphege	10		0	20	11		♀	6.19	V	☾ ♀ ☾
20	e	Ceadwall K.	11		58	5	II	20	♀	0.11	II	
21	f	Simeon	12		56	20	13		h	4.54	☾	Easterly Wind.
22	g	Bater, &c.	13		54	4	☾	41	h	20.51	☾	☾ h ☾
23	a	Sr. George	14		52	18	40		♂	27.2	V	
24	h	Mellitus	15		49	2	☾	10	♀	12.18	V	Fair and
25	c	S. Mark Evan.	16		47	15	13		♀	1.30	II	cleer Air.
26	d	Cletus	17		45	27	52		h	5.24	☾	
27	e	Walburge	18		43	10	m	15	h	22.2	☾	☾ Rising.
28	f	Tern Begia	19		41	20	22		♂	0.46	☾	
29	g	Peter Martyr	20		38	4	≈	20	♀	18.17	V	Very Warm
30	a	Kath. of Sena	21		36	16	13		♀	0.57	II	wea.her.

APR
Mou
mora
star-
bence
the m

Sun rise.

APRIL. 1680

APRIL, so called, ab aperiendo, of opening, because in this Month all things are opened in the Flower: So Ovid, Aprilem memorant ab aperto tempore dicta. The ancient Saxons called it Ostar-Monath, of the East Wind that used to blow this Month. And hence the Feast of Easter seemeth to take its Name, as being for the most part kept in this Month.

15	20	16	40	1	20	Day breaks 2 h. 57 m.	11	C
15	18	6	42	2	10	Twilight ends 9 h. 3 m.	12	D
35	16	6	44	3	0	Day 13 hours and half long.	13	E
45	14	6	46	3	48		14	F
55	12	6	48	4	36	The 11 day keep holy, praise him	15	G
65	10	6	50	5	24	still,	16	A
75	7	6	53	6	12	That set us free from Satan, Sin	17	B
85	4	6	56	7	0	and Hell.	18	C
95	2	6	58	7	48		19	D
105	0	7	0	8	36	Day 14 hours long.	20	E
114	58	7	2	9	24		21	F
124	57	7	3	10	12	Day lengthened 6 h. 32 min.	22	G
134	55	7	5	11	0		23	A
144	53	7	7	11	48	Day breaks 2 h. 25 m.	24	B
154	52	7	8	12	36	Twilight ends 9 h. 35 m.	25	C
164	50	7	10	1	24	Sun rises E N E. sets W N W.	26	D
174	48	7	12	2	12		27	E
184	46	7	14	3	0		28	F
194	44	7	16	3	48	Day 14 hours and half long.	29	G
204	42	7	18	4	36		30	A
214	40	7	20	5	24		31	B
224	39	7	21	6	12	The 7 Stars rise Cosmically.	1	C
234	37	7	23	7	0		2	D
244	35	7	25	7	48	Day breaks 1 h. 54 m.	3	E
254	33	7	27	8	36	Twilight ends 10 h. 9 m.	4	F
264	31	7	29	9	24		5	G
274	29	7	31	10	12	Day 15 hours long.	6	A
284	27	7	33	11	0	The North Balance S. at 12.	7	B
294	25	7	35	11	48		8	C
304	23	7	37	12	36	Day lengthened 7 ho. 40 m.	9	D

High-water at London-bridge.

Sun sets.

Sun rises.

May hath XXXI. days.

- Full Moon the 3 day, 9 min. past 3 in the afternoon.
- ☾ Last quarter the 11 day, 56 min. past 2 in the afternoon.
- New Moon the 18 day, 50 m. past 1 in the morning.
- ☾ First quarter the 25 day, at 3 in the morning.

*Sweet morning walks and Sage the minds may please,
Of those whose Bodies are in health and ease.*

1	b	S. Phil. & Jac.	21	34	28	3	h	5	55	☾
2	☾	Jubilate	22	32	9	m	53	☾	23.12	☾
3	b	Inven. Cru.	23	29	21	47	♂	4.28	☾	☾ ☾ ☾
4	e	Monica	24	27	3	56	♀	24.17	☾	☾ ☾ ☾
5	f	Alzive Q.	25	24	15	50	♀	28.43	☾	☾ ☾ ☾
6	g	Joh. Por. Sar.	26	22	28	1	h	6.2	☾	☾ ☾ ☾
7	a	John Beverly	27	19	10	☾	21	☾	24.23	☾
8	b	Ap. S. Mich.	28	17	22	51	♂	8.10	☾	☾ ☾ ☾
9	☾	Cantate	29	15	5	☾	34	♀	0.17	☾
10	b	Gordianus	☾	12	18	31	♀	25.53	☾	☾ ☾ ☾
11	e	Anthony	1	9	1	☾	44	☾	0	☾ ☾ ☾
12	f	Pancratius	2	7	15	19	h	7.	☾	☾ ☾ ☾
13	g	Servarus	3	4	29	☾	15	☾	25.35	☾
14	a	Boniface	4	2	13	☾	36	♂	11.18	☾
15	b	Weddingsou.	4	59	28	18	♀	6.	☾	☾ ☾ ☾
15	☾	Rog. Sund.	5	57	13	☾	19	♀	23.36	☾
17	b	Sarah	6	54	28	28	h	7.	☾	☾ ☾ ☾
18	e	Sewal	7	51	13	☾	37	☾	26.44	☾
18	f	Pudentian. V.	8	40	28	33	♂	15.	☾	☾ ☾ ☾
20	g	Ascens. day	9	46	13	☾	7	♀	12.47	☾
21	a	Timothy	10	43	27	15	♀	22.	☾	☾ ☾ ☾
22	b	Juliana. V	11	40	10	☾	2	h	8.	☾
23	☾	Exaudi	12	38	23	59	☾	27.6	☾	☾ ☾ ☾
24	b	Term ends	13	35	6	☾	42	♂	19.21	☾
25	e	Urban	14	32	19	6	♀	18.	☾	☾ ☾ ☾
26	f	Augustine	15	29	1	m	6	♀	23.50	☾
27	g	Beda Ven.	16	27	13	1	h	8.	☾	☾ ☾ ☾
28	a	Jonas Ab.	17	24	24	49	☾	29.42	☾	☾ ☾ ☾
29	b	K. Ch. II. Na.	18	21	6	☾	28	♂	22.23	☾
30	☾	Whit Sunday	19	18	18	30	♀	24.38	☾	☾ ☾ ☾
31	b	Petronilla	20	15	0	☾	27	♀	26.38	☾

☾ ☾ ☾
Wind and
rain, with
cloudy and
dark Air.

☾ ☾ ☾
More serene
and clear

☾ ☾ ☾
☾ ☾ ☾
Great wind,
with some

☾ ☾ ☾
Rain or
hail.

☾ ☾ ☾
Pleasant
Weather
with flying
clouds and
some shower

MAY 1680.

May, Is so called of the Goddess *Maja* the Mother of *Mercury*, because the Heathens used to Sacrifice to her this moneth. The Saxons called it *Trimilk*. because in this moneth they used to milk their Kine three times every day.

1	24	4	23	7	38	Day breaks 8 m. alt. 2 in the morn.	11	g
2	32	4	21	7	39	Twilight ends 52 m. aft. 10. at ni.	12	f
3	0	4	20	7	40	The North Crown South at 12.	13	g
4	48	4	19	7	41	The Hinder Guard South at 12.	14	a
5	36	4	17	7	43	Serpents neck S. at 12.	15	b
6	24	4	15	7	45	Day 15 hours and half long.	16	c
7	12	4	13	7	47		17	d
8	0	4	11	7	48		18	e
9	48	4	11	7	49	The Sun is just East at 9 m. after 7	19	f
10	36	4	10	7	50	in the morn and West 5 m. after 4	20	g
11	24	4	9	7	51	Sun Rises N.E. by E. & sets N.W.	21	a
12	12	4	7	7	53	by W.	22	b
13	0	4	6	7	54		23	c
14	48	4	5	7	55		24	d
15	36	4	3	7	57	Continued day and no dark night	25	e
16	24	4	2	7	58	from May 12 to July 12	26	f
17	12	4	1	7	59	Day 16 hours long.	27	g
18	0	3	59	8	1		28	a
19	48	3	58	8	2		29	b
20	36	3	56	8	4		30	c
21	24	3	55	8	5	The Bulls eyes rises Cosmically.	31	d
22	12	3	54	8	6	Day lengthened 9 h. 8. m.	1	e
23	0	3	53	8	7		2	f
24	48	3	53	8	7		3	g
25	36	3	52	8	8		4	a
26	24	3	52	8	8	Arcules head so. th at 12.	5	b
27	12	3	52	8	8		6	c
28	0	3	51	8	9	King Charles the II. born, 1630.	7	d
29	48	3	51	8	9	and restored 1660.	8	e
30	36	3	50	8	10	Day 16 hours 30 m. long.	9	f
31	24	2	50	8	10		10	g

June hath XXX. days.

- Full moon the 2 day, 13 min. after 6 in the morn.
 Last quarter the 9 day, 20 min. after 7 at night.
 New moon the 16 day, half an h. af. 9 in the morn.
 First quarter the 23 day, a quarter after 6 at night.

*Drinks new or sweet, hot Spices I warn thee flee
 The spirits of Venus, and Phlebotome.*

1	Pamphilus	12	2	31	11	12	h	9	33	S	Fair and
2	Marcellin	24		47	22	10	u	0	24	II	elder
3	Em. week	7	v	12	23	7	s	26	59	S	
4	Petroch B.	19		48	24	4	2	1	30	II	
5	wedding	2	m	31	25	1	2	2	13	II	very hot and
6	Trinity full	15		28	25	58	h	10	11	S	good hay
7	Paulus	28		35	26	55	u	1	32	II	harvest weat-
8	Wil. B. Y.	11	x	55	27	52	s	0	31	II	ther in some
9	Felicianus	25		28	28	49	2	7	42	II	places
10	Corp. Chri.	9	v	16	29	46	2	8	33	II	
11	Term beg.	23		21	0	43	h	10	49	S	S. Barnabas
12	Cyrinus	7	2	46	1	40	u	2	38	II	
13	2 alt. Trin.	22		24	2	37	s	4	3	II	
14	Basil. Mag.	7	II	12	3	35	9	11	36	II	
15	Modestus	11		2	4	33	1	16	31	II	
16	Richard	6	S	48	5	39	h	11	28	S	
17	Boroloph	21		17	5	36	u	3	43	II	
18	Marcus & c.	5	2	1	7	23	s	7	32	II	heat abated
19	Gervasius	18		1	8	20	9	19	50	II	and the > ea.
20	2 alt. Trin.	2	III	11	9	17	2	25	16	II	ther set led
21	Walburge	14		55	10	14	h	12	7	S	for many
22	Alhan	27		18	11	11	u	4	46	II	days together
23	Paulin	9	2	23	12	8	s	11	1	II	
24	Joh. & Eas	21		16	13	5	2	35	55	II	some
25	An phiba	3	m	5	14	2	2	5	23	S	rain, and
26	Joh & Paul	14		56	14	55	h	12	46	S	very windy
27	2 alt. Trin.	25		46	15	36	u	5	49	II	
28	Leo & F.	8	2	47	16	52	s	14	27	II	
29	S. Pet. & P.	10		59	17	50	9	21	1	S	
30	Term ends	3	v	24	18	48	u	6	6	S	

JUNE 1680.

June, Junius taketh the name of Junius Brutus the Authour of the Roman Liberty, who was made Consul this Moneth. The Saxons called this Moneth Weyd-monat, of Weyden to feed, because they used this Moneth to drive their Cattel into the Pastures to feed.

1	12	3	50	8	10	Day lengthened 2 hours 46 m.	11	a
2	3	0	3	49	8		12	b
3	3	52	3	49	8		13	c
4	4	43	3	49	8		14	d
5	5	34	3	48	8		15	e
6	6	26	3	48	8		16	f
7	7	18	3	48	8	Dragon's head S. at 12.	17	g
8	8	10	3	47	8		18	h
9	9	3	3	47	8		19	b
10	9	53	3	47	8	Day lengthened 2 hours 53 m.	19	b
11	10	44	3	47	8	Longest day 15 hours 23 m.	10	c
12	11	37	3	47	8	Upon which day the ☉ will be up	21	d
13	11	30	3	47	8	on the just East point at 20 min	22	e
14	1	23	3	47	8	after 8 in the morn and upon	23	f
15	2	16	3	47	8	the w. st point, at 40 min after	24	g
16	3	10	3	48	8	3 in the afternoon, and the ☉	25	h
17	3	4	3	48	8	on the same 12 day will rise 40	26	b
18	4	36	3	49	8	degr. from the East towards the	27	c
19	5	24	3	49	8	North, and will set 40 degr.	28	d
20	6	12	3	49	8	from the west towards the North	29	e
21	7	3	3	50	8	that is the sun will rise N. E.	30	f
22	7	48	3	51	8	half a point Easterly, and sets N.	July	g
23	8	36	3	51	8	west half a point westerly.	1	a
24	9	24	3	52	8	Day 16 hours 31 m. long.	2	b
25	10	13	3	52	8		3	c
26	11	6	3	52	8		4	d
27	11	48	3	53	8		5	e
28	12	36	3	54	8	Day shortened 12 min.	6	f
29	1	24	3	55	8		7	g
30	1	13	3	56	8	S. at 12. bilt jenn. at 12.	8	a

July hath XXXI. days.

- Full moon the 1 day, 22 min. after 7 at night.
- Last quarter the 8 day, a quart. after Midnight
- New moon 16 day, 39 min. past 4 in the morning
- First quarter the 23 day, 12 min. after 11 at noon
- Full moon the last day, a quarter after 7 in the morn

*Strong Drinks and new refuse, they be shy For,
To bath in Rivers cool this July go.*

1	g	Romwald	16	nr	3	19	45	h	13	25	5	
2	a	Visit Mary.	28		55	0	42	u	6	49	II	6 0 2
3	h	Hyacinth.	12	~	1	21	39	g	17	53	II	Fair hot
4	C	4 alt. Trin.	25		17	22	36	q	8	7	5	and plea.
5	d	Ansellm	8	X	44	23	33	z	28	49	5	sun weather
6	g	Sexburg Q.	22		17	24	30	h	14	4	5	with some
7	f	Demetrius	6	V	1	25	28	u	7	48	II	claps of
8	g	Grambold	19		54	26	25	g	21	16	II	Thunder.
9	a	Edelburg	3	5	53	27	22	g	14	14	5	6 2 2
10	h	7 Brethren	18		5	28	19	g	7	6	5	
11	C	5 alt. Trin.		II	21	19	16	h	14	43	5	6 2 2
12	d	Fel. & Nab.	16		45	0	14	u	8	44	II	6 2 2
13	e	Anaeletus	1	5	9	1	1	g	24	39	II	high wind
14	f	Bonavent.	15		29	2	8	g	20	22	5	6 2 2
15	g	Swithin	29		37	3	5	g	16	42	5	
16	a	Osmond	3	5	29	4	3	h	15	21	5	6 2 2
17	h	Alexius	26		58	5	0	u	9	38	II	6 and 2
18	C	6 alt. Trin.	10	nr	5	5	57	g	27	59	II	are both
19	d	Ruffins	22		49	6	54	q	26	30	5	combrust
20	e	Dog da. be.	5	5	13	7	52	z	25	27	5	this month
21	f	Daniel	17		20	8	49	h	15	58	5	Fair and
22	g	Mary Mag	29		17	9	47	u	10	30	II	clear air
23	a	Apollina	11	m	5	10	44	g	1	18	5	* 2 0
24	h	Christina	22		54	11	41	q	2	39	5	heat abated
25	C	7 James A.	4	2	4	12	39	g	3	49	nr	and very
26	d	Anna	16		47	13	36	h	16	35	5	seasonable
27	e	Pantaleon	29		2	14	34	u	11	20	II	and good
28	f	Sampson	11	v	33	5	31	g	4	36	5	weather to
29	g	Martha V.	24		23	6	29	q	8	49	5	the end of
30	a	Abdon	7	~	30	17	27	u	11	21	nr	the
31	h	Ignatius	20		55	18	24					month.

JULY 1680.

July, *julius*, so called of *Julius Caesar*, who was born in this Moneth, for before it was called *Quintilis*, as being the fifth Moneth from *March*, from whence the Ancient Romans used to begin the order of their Moneths. The *Saxons* called this Moneth *Hen-monat*, or *Heymonat*, because of their Hay-harvest in this Moneth.

1	3	03	57	8	3		11	c
2	3	48	57	8	3	Orions Girdle rises Cosmically	12	d
3	4	36	58	8	2		13	c
C 4	5	24	59	8	1	The Scorpions Thigh, and Vultur	14	e
5	6	12	08	0	0	Day 15 hours long.	15	g
6	7	04	27	58		res heart are S. at midn.	16	a
7	7	48	37	57			17	b
8	8	36	57	55			18	c
9	9	24	67	54		Day shortened 38 m.	19	d
10	10	12	87	52			20	e
C 11	11	04	97	51			21	f
12	11	48	117	49		☉ Rises N.E. by E. Sets N.W. by W.	22	g
13	12	36	127	48		and is Ea 9 min. after 7, and	23	a
14	1	24	137	47		West 51 min. after 4.	24	b
15	2	12	147	46			25	c
16	3	04	157	45		Day 15 hours and a half long.	26	d
17	3	48	167	44			27	e
C 18	4	36	177	43		The Swans Tail, and the Dolphins	28	f
19	5	24	187	42		Head both South at 12	29	g
20	6	12	207	40		Day breaks 45 m. after midn.	30	a
21	7	04	217	39			31	b
22	7	48	237	37		Twilight ends a quarter after 11	Aug.	
23	8	36	257	35			1	d
24	9	24	277	33		Day shortened 1 hour 20 m.	2	e
C 25	10	12	297	31			3	f
26	11	04	307	30		Day 15 hours long.	4	g
27	11	48	327	28			5	a
28	12	36	347	26			6	b
29	1	24	367	24			7	c
30	2	12	377	23		The great Dog rises cosmically.	8	d
31	3	04	387	22			9	e

August bath XXXI. days.

Left quarter the 7 day, at 3 in the morning.
New moon the 13 day half past 5.

First quarter the 7 day, at 3 in the morning.
New moon the 13 day, half an hour after 7 at night.
First quarter the 22 day, 3 quarr 26

Full moon the 29 day, 3 quart, after 5 in the afternoon
Take head of Surtiss

Take head of Surfeits, inflaming meass and spices
Physick forbear, be wise in exercises.

The wise in exercises.									
1	East, Trin.	4	35	19	21	17	18	5	Wind and
2	Stephen	18	27	20	19	12	15	II	Storms of
3	Invent St.	2	27	21	17	8	31	5	Star
4	Aristarch.	16	30	22	14	16	13	Q	Rain, no
5	Festum Ni.	0	40	23	12	19	26	W	and then
6	Trans. Chr.	14	37	24	10	17	53	5	& Perils - some
7	Conatus	28	54	25	7	12	57	II	thunder
8	East, Trin.	12	II	58	5	11	45	5	of the
9	Romanus	17	4	37	3	22	24	Q	very
10	Lawrence	11	5	28	1	20	10	m	of the
11	Titus	24	53	28	59	18	26	5	of the
12	Clare V.	8	Q	33	57	13	37	II	various
13	Hippolitus	22	10	29	54	14	58	5	of the
14	Eusebus	5	W	13	52	28	35	Q	unsettled
15	East, Trin.	18	7	2	50	0	12	5	weather
16	Rothus	0	4	3	48	18	58	5	of the
17	Tho. of Hart	13	6	4	46	14	18	II	till the 20
18	Helena Q.	25	12	5	44	18	8	5	day,
19	Clintank	7	m	9	42	4	47	W	of the
20	Bernard	19	1	7	41	3	49	5	of the
21	Richard	0	2	3	30	19	29	5	high winds
22	East, Trin.	12	42	9	27	14	4	II	with flying
23	Timothy	24	4	10	3	21	8	5	clouds pro-
24	S Barthol.	6	W	5	33	10	50	W	ducing rain
25	Ludavicus	19	28	12	31	5	41	5	of the
26	Zepherinus	2	20	13	30	19	58	5	of the
27	Dogda, end	16	4	5	28	15	13	II	of the
28	Augustine	29	1	5	2	24	2	5	of the
29	East, Trin.	12	4	6	25	17	12	W	of the
30	Felix	27	24	7	23	5	10	5	fair weather
31	Adrian. B.	11	V	8	22	5	10	5	at the end

AUGUST 1680.

August, Taketh the name of *Augustus Caesar*, who in this Moneth began his Consulship, brought three Triumphs into the City, and put an end to the Civil Wars, before whose time it was called *Sextilis*, as being the sixth Moneth from *March*. The Saxons called it *Armonat*, or Harvest Month.

C	3	48 4	39 7	21				18	P
3	4	36 4	40 7	20	Pegasus Mouth south at 12			11	g
3	5	24 4	43 7	17				13	a
4	6	12 4	44 7	16	Day 14 hours and half long.			14	b
5	7	0 4	46 7	14	Day breaks 23 m. aft. 2.			15	c
6	7	48 4	48 7	12	Twy light ends 43 m. aft. 9.			16	d
7	8	36 4	50 7	10	☉ rises E. by E. sets 10 N. by N.			17	e
C	9	24 4	52 7	8				18	f
9	10	12 4	54 7	6	Day shortened a h. 14 min.			19	g
10	11	0 4	56 7	4				20	a
11	11	48 4	58 7	2				21	b
12	12	36 4	59 7	1	Day 14 hours long.			22	c
13	1	24 5	1 6	39				23	d
14	2	12 5	3 6	57				24	e
C	3	0 5	5 6	55	Day breaks 46 m. aft. 3.			25	f
16	3	52 5	6 6	54	Twy-light ends 13 m. aft. 9.			26	g
17	4	43 5	8 6	52				27	a
18	5	35 5	10 6	50				28	b
19	6	26 5	12 6	48	The ☉ will be due East 32 m. after 6.			29	c
20	7	18 5	14 6	46	Day 13 hours and half long.			30	d
21	8	10 5	16 6	44	☉ and due West 28 m. after 6.			31	e
C	9	2 5	18 6	42				Sept	
23	9	53 5	20 6	41	Pegasus Shoulder S. at 12.			1	g
24	10	45 5	22 6	38	Day shortened 3 hours 10 min.			2	a
25	11	37 5	24 6	36	☉ rises E. by N. sets West by N.			3	b
26	12	28 5	26 6	34				4	c
27	1	20 5	28 6	32	Day 13 hours long.			5	d
28	2	11 5	30 6	30				6	e
C	3	0 5	31 6	29	The ☉ is due East 16 m. after 6			7	f
29	3	52 5	33 6	27	and West 44 m. after 9			8	g
30	4	43 5	35 6	25				9	a

September hath XXX. days.

- ☾ Last quarter the 5 day, half an hour past 9 in the mo.
- ☾ New moon the 12 day, at 7 at night.
- ☾ First quarter the 20 day, half an hour after 10 night.
- Full moon the 27 day, 8 min. after 8 at night.

*Now Physick may be us'd, bleed, bath and purge,
Or whatsoever necessity doth urge.*

1	f	Giles Ab.	26	V	27	19	20	h	20	31	☾	The moneth
2	g	Lond hurne	11	☾	1	20	19	u	15	40	☾	begins with
3	a	anno 1666	25		29	21	18	☾	28	7	☾	Perig.
4	b	Trans. Cut.	0	☾	46	22	16	☾	24	40	☾	☾
5	☾	13 aft. Tri.	23		51	23	15	☾	1	12	☾	warm air,
6	d	Magnus	7	☾	45	24	13	h	20	56	☾	but suddain
7	e	Trans. Dun	21		26	25	12	u	15	59	☾	☾
8	f	Na. B Vir.	4	☾	53	26	11	☾	1	10	☾	☾
9	g	Gorgonius	18		8	27	10	☾	0	54	☾	☾
10	a	Nicholas	1	☾	10	28	8	☾	25	54	☾	showers of
11	b	Jacinthus	14		1	29	7	h	21	20	☾	rain or hail
12	☾	14 aft. Tri.	26		36	0	6	u	16	13	☾	☾
13	d	Eq. D. & N.	9	☾	1	1	5	☾	4	11	☾	☾
14	e	Exal Cruci	21		15	2	4	☾	7	8	☾	
15	f	Nichom.	3	☾	19	3	3	☾	21	46	☾	
16	g	Ember W.	14		15	4	2	h	21	41	☾	Apog.
17	a	Stephen	27		9	5	1	u	16	32	☾	cloudy and
18	b	Wynock	8	☾	59	6	0	☾	7	10	☾	
19	☾	15 aft. Tri.	30		53	6	59	☾	13	22	☾	Stationary
20	d	Enstachius	7	☾	54	7	59	☾	21	20	☾	dark air
21	e	S. Matthew	15		5	8	58	h	22	0	☾	☾
22	f	Maurice	27		32	9	5	u	16	26	☾	
23	g	Einus	10	☾	20	10	56	☾	10	7	☾	fair clear
24	a	Winebald	23		32	11	56	☾	19	37	☾	apt warm
25	b	Ceoffride	7	☾	11	12	55	☾	25	4	☾	Stat.
26	☾	16 aft. Tri.	21		17	13	55	h	22	16	☾	☾
27	d	Cas. & Dam	5	V	45	14	54	u	16	25	☾	weather ends
28	e	Lioba	20		35	15	53	☾	13	1	☾	☾
29	f	S. Michael	5	☾	26	16	53	☾	5	51	☾	the moneth.
30	g	Herome	20		33	17	53	☾	1	20	☾	

SEPTEMBER 1680.

September. So called, as being the seventh moneth from March inclusive. The Saxons called this moneth *Gerst-Monat*, that is Barley Moneth, of their Barley Harvest in this Moneth.

1	5	35 5	37 6	23	Day breaks 42. m. at. 3. morn.	11 b
2	6	26 5	40 6	20	Twilight ends 18 m. af. 8 at nig.	12 c
3	7	18 5	42 6	18		13 d
4	8	10 5	44 6	16	Day 12 hours and half long	14 e
5	9	2 5	45 6	15		15 f
6	10	53 5	47 6	13	Day shortened 4 hours.	16 g
7	11	45 5	49 6	11		17 a
8	12	37 5	50 6	10	Andromeda's Head, and Cassiopeas	18 b
9	1	28 5	51 6	9	Chair both S. at 12.	19 c
10	2	20 5	53 6	7		20 d
11	3	11 5	55 6	5		21 e
12	4	0 5	58 6	2	Sun rises exactly East, and	22 f
13	5	48 6	0 6	0	Equal day and night 12 hours.	23 g
14	6	36 6	2 5	58	Sun sets due West	24 a
15	7	24 6	4 5	56		25 b
16	8	12 6	6 5	54	Day breaks 8 m. af. 4 in the mor.	26 c
17	9	0 6	8 5	52	Twilight ends 52 m. af. 7 at nig.	27 d
18	10	48 6	10 5	50	Day shortened 4 hours and half	28 e
19	11	36 6	12 5	48		29 f
20	12	24 6	14 5	46		30 g
21	1	12 6	16 5	44	Day 11 hours and half long.	08 a
22	2	0 6	18 5	42		2 b
23	3	48 6	20 5	40		3 c
24	4	36 6	22 5	38	Day breaks 50 m. af. 4 in the mor.	4 d
25	5	24 6	24 5	36	Twilight ends 30 m. at. 7 at nig.	5 e
26	6	12 6	26 5	34	Andromeda's Should. South at 12.	6 f
27	7	0 6	28 5	32		7 g
28	8	48 6	30 5	30	Day 11 hours long.	8 a
29	9	36 6	32 5	28		9 b
30	10	24 6	34 5	26	Cassiopeas Knee South at 12.	10 c

High water at London Bridge

Sun Rises

Sun Sets

October hath XXXI. days.

● Last quarter the 4 day, 25 min. after 5 at night.
● New moon the 12 day, at 2 in the af-

First quarter the 20 day half.

Full moon the 27 day, 19 min. after 1 in the afternoon.
Now Physicks begin to set out.

Now Physicks help do not refuse
If chemie is meant

If thou it want, and't carefully canst use.
Remains is —

[illegible]

OCTOBER 1680.

October, So called as being the eighth Month from March. The Saxons called it *Vin-monat*, that is Wine moneth, because this Moneth, they had Wine brought out of other Countries.

16	126	365	24	Dry breaks at 47 m. aft. 4 Morn.	11 d
17	06	383	22	Twy-light ends 13 m. aft. 7 N.	12 e
18	486	405	20		13
19	366	425	18	Day shortened 5 hours 50 m.	14 b
20	246	445	16		15 a
21	126	465	14	Day 10 hours and half long.	16 b
22	06	485	12		17 c
23	486	505	10		18 d
24	366	525	8	The Rams horn S. at 12.	19 e
25	246	545	6		20
26	126	565	4	Day shortened 6 h. 46 min.	21 b
27	06	585	2		22 a
28	487	05	c	The Rams head South at 12.	23 b
29	367	24	58	Day 10 hours long.	24 c
30	247	44	56		25 d
31	127	64	54	Dry breaks 9 m. aft. 5 Morn.	26 c
1	07	84	52	Twy-light ends 55 m. aft. 6 N.	27
2	487	104	50		28 b
3	367	124	48	Day shortened 6 hours 46 min.	29 a
4	247	144	46	Sun rises E.S.E. sets W.S.W.	30 b
5	127	164	44		31 c
6	07	174	43	Day 9 hours and half long.	No
7	487	194	41		1 e
8	367	204	40		2
9	247	224	38		3
10	127	244	36	The 7 Stars rise Achronically	4 e
11	07	264	34	Day shortened 7 h. and a quarter.	5 a
12	487	284	32	The Whales jaw and Medusae	6 b
13	367	304	30	head are both S. at 12.	7 c
14	247	324	28	Day 9 hours long.	8 d
15	127	344	27	Perseus right side S. at 12.	9 e
16	07	364	26		10

November XXX. days.

- ☾ Last quarter the 3 day, 19 min. after 4 in the morn
- New moon the 11 day, a quart. after 6 in the morn
- ☾ First quarter the 19 day, 50 min. after 6 in the morn
- Full moon the 25 day, 20 min. past 11 at night.

*Chuse hot and wholesome drinks and meats likewise.
Avoid hot Baths, use honest exercise.*

1	d	All Saints	18	☾	7	19	1	50	12	22	53	☾	♂ ♀
2	e	All Souls	11	☾	46	20	57	12	13	57	II	☾	snow or
3	f	Winefred	24		59	21	57	♂	2	28	☾	☾	rain, in-
4	g	Vitalis	7	☾	50	22	58	♀	10	51	7	♂	
5	a	Powd. Plot	20		22	23	59	♀	0	21	7	☾	termized
6	b	Leonard	2	☾	39	25	0	h	22	49	☾	☾	
7	c	22 aft. Tri	14		46	26	0	12	13	21	II	☾	with some
8	d	Severus	25		4	27	1	♂	4	54	☾	☾	
9	e	Claudius	3	☾	43	28	2	♀	17	6	7	☾	frosts
10	f	Triphon	20		38	29	2	♀	8	5	7	☾	Apog.
11	g	Martin B.C.	2	☾	33	30	4	h	22	40	☾	☾	dark air
12	a	Martin P.M.	14		28	1	5	12	12	42	II	☾	
13	b	Kilianus	26		27	2	6	♂	7	15	☾	☾	
14	c	23 aft. Tri	8	☾	29	3	7	♀	23	21	7	☾	
15	d	Leopaldus	20		37	4	7	♀	15	46	7	☾	
16	e	Edmond	2	☾	53	5	8	h	22	29	☾	☾	seasonable
17	f	Thanma.	15		20	6	10	12	12	2	II	☾	and settled
18	g	Eccles Pet.	28		17		11	♂	9	33	☾	☾	weather, for
19	a	Poucion	11	☾	18		12	♀	29	36	7	☾	many dayes
20	b	Edmond	24		22	9	13	♀	23	22	7	☾	
21	c	24 aft. Tri	8	☾	9	10	14	h	22	15	☾	☾	
22	d	Cicely V.	22		24	11	15	12	12	22	II	☾	
23	e	Clement	7	☾	4	12	16	♂	11	41	☾	☾	
24	f	Chrisogon	22		8	13	17	7	5	50	☾	☾	storms of
25	g	Katherine	7	II	24	14	18	☾	0	49	☾	☾	wind, with
26	a	Peter B. M	22		43	15	19	h	21	59	☾	☾	rain snow
27	b	Oda Vir.	7	☾	51	16	20	12	10	41	II	☾	or fleet.
28	c	Adv. Sund.	22		29	17	21	♂	13	44	☾	☾	
29	d	Term ends	6	☾	59	18	23	7	12	5	☾	☾	
30	e	S. Andr. Ap	20		49	19	24	♀	7	59	☾	☾	

NOVEMBER 1680.

November, So called, as being the ninth moneth from March, The Saxons called it *Wint-monat* because of the blustering Winds which usually rife in this moneth.

7	0	7	344	26	Day breaks 37 m. at 5 in the mor.	11 g
8	48	7	364	24	Twylight ends 23 m. at 6 at night.	12 a
9	36	7	384	22	Day shortened 7 h. 42 m.	13 b
10	24	7	394	21		14 c
11	12	7	404	20	The great Dog sets cosmically	15 d
12	0	7	424	18		16 e
13	48	7	434	17	Perseus Foot South at 12.	17 f
14	36	7	454	15	Day 8 hours and a half long.	18 g
15	24	7	464	14		19 a
16	12	7	484	12	Day shortened 8 h 2 min.	20 b
17	0	7	494	11	☉ Rises S.E. by E. & sets S.W. by W.	21 c
18	48	7	504	10	The seven stars sets Cosmically,	22 d
19	36	7	524	8	The Bulls eye sets Cosmically.	23 e
20	24	7	534	7	No absolute day but all Twylight.	24 f
21	12	7	554	5	Twylight ends 13 m. at 6 at Ni.	25 g
22	0	7	564	4		26 a
23	48	7	574	3		27 b
24	36	7	584	2		28 c
25	24	7	594	1		29 d
26	12	8	04	0	Day 8 hours long.	30 e
27	0	8	13	59	The Bulls eye Rises Achronically	Dec 1 g
28	48	8	23	58		2 h
29	36	8	33	57	Day shortened 8 h. 34 m.	3 a
30	24	8	43	56		4 b
1	12	8	53	55		5 c
2	0	8	63	54		6 d
3	48	8	73	54		7 e
4	36	8	83	53	Orions foot S. at 12	8 f
5	24	8	93	52		9 g
6	12	8	93	51	Orions shoulder. S. at 12	10 a

High water at London Bridge

Sun Sets

December hath XXXI. days.

- Last quarter the 2 day, 34 min. after 9 at night.
- New moon the 11 day, half an h. aft: 1 in the morn.
- First quarter the 18 day, half an hour aft. 7 at night.
- Full moon the 25 day, 22 min. after 8 in the morn.

*To keep thy self in Action thou mayest play
At Cards or Dice, but not thy 'state away.*

1	f	Bibiana	4	m	8	20	25	h	21	41	☉	☿	☽
2	g	Lucius	17		0	31	26	u	10	1	☿	☽	☽
3	a	Cassianus	29		30	22	26	☿	15	39	☿	☽	☽
4	l	Barbara	11	☿	43	23	29	☽	18	19	☿	☽	☽
5	☉	in Advent	23		45	24	30	☽	14	29	☿	☽	☽
6	r	Nicholas	5	m	41	25	31	h	21	21	☉	☿	☽
7	f	Ambrose	17		34	26	33	u	9	22	☿	☽	☽
8	f	Concep. M.	29		26	27	34	☿	17	26	☿	☽	☽
9	g	Leocadia	11	☿	21	28	35	☽	24	33	☿	☽	☽
10	a	Melchias	22		20	29	37	☽	19	28	☿	☽	☽
11	b	Damascus	5	☿	27	0	38	h	20	58	☉	☿	☽
12	☉	in Advent	17		39	1	39	u	8	46	☿	☽	☽
13	b	Lucia V.	29		5	2	41	☿	19	4	☿	☽	☽
14	☉	Mimborin.	12	☿	23	3	41	☽	0	46	☿	☽	☽
15	f	Abraham	35		4	4	43	☽	21	27	☿	☽	☽
16	g	Ember W.	7	☿	2	5	44	h	20	35	☉	☿	☽
17	a	Lazarus	20		56	6	46	u	8	13	☿	☽	☽
18	u	Winebald	4		15	7	47	☽	20	32	☿	☽	☽
19	☉	in Advent	17		33	8	48	☽	6	59	☿	☽	☽
20	b	Julius	1	☿	33	9	50	☽	18	57	☿	☽	☽
21	f	S. Thomas	16		17	0	51	h	20	11	☉	☿	☽
22	f	30 Martyrs	0	☿	59	11	52	u	7	43	☿	☽	☽
23	g	Victoria V.	15		57	2	54	☿	11	48	☿	☽	☽
24	a	Adam & Ev.	0	☿	59	3	55	☽	13	11	☿	☽	☽
25	b	Christ nat.	16		1	4	50	☽	12	42	☿	☽	☽
26	☉	S. Stephen	0	☿	45	5	58	h	19	47	☉	☿	☽
27	b	S. John Ev.	15		0	16	59	u	7	18	☿	☽	☽
28	f	H. Innocent	29		2	18	0	☽	22	51	☿	☽	☽
29	g	Tho. of C.	12	☿	28	9	1	☽	19	32	☿	☽	☽
30	g	Eustach	25		26	10	3	☽	7	2	☿	☽	☽
31	a	by vester	8	☿	1	1	4						

Storms of
snow and
windy, with
frost
Apog.
more temper-
ate but
some
snow or
rains
settled wea-
for several
days,
cold
rain
very windy
with drifts
of
snow and
fleece.

DECEMBER 1680.

December, So called as being the tenth Moneth from March. The Saxons at first called it *Winter-monat*, that is Winter Moneth but after they received the Christian Faith, they called it *Hetigh-monat*, that is holy Moneth, because of the holy Feast of *Christmas* celebrated in this Moneth.

6	7	08	10	3	50	First * in Orions. Little S. at 12	11 b
2	7	48	11	3	49	Twilight ends at 6 at night	12 c
3	8	36	12	3	48	Day shortened 8 hours 48 min.	13 d
4	9	24	12	3	48		14 e
C	10	12	13	3	47	Wagons Shoulder S. 12	15 f
6	11	08	13	3	47	Orions right Shoulder S. 12	16 g
7	11	48	13	3	47	— if mirth now take thy fill,	17 a
8	12	36	13	3	47	For mirth with measure can produce	18 b
9	1	24	13	3	47	no ill.	19 c
10	1	12	13	1	47	Day shortened 8 h. 52 m.	20 d
11	3	08	13	1	47	Shortest day 7 h. 34 m. long.	21 e
C	3	48	13	3	47	The ☉ rises S.E. half a Point Ea-	22 f
13	4	36	13	1	47	sterly, and sets S.W. half a point	23 g
14	5	24	13	3	47	Westerly, having amplitude from	24 a
15	6	12	13	3	47	the East and W. southerly 40	25 b
16	7	08	13	3	47	degrees, his meridian altitude	26 c
17	7	48	12	3	48	being only 15 degrees, and so	27 d
18	8	36	11	3	49	the rest x of his beams can yield	28 e
C	9	24	10	3	50	but little heat to the inhabitants	29 f
20	10	12	9	3	51	of these northern climates.	30 g
21	11	08	8	3	52		31 a
22	12	48	7	3	53		32 b
23	12	36	6	3	54	Feast not the rich ones,	33 c
24	1	24	5	3	55	but thy Neighbour's poor,	34 d
25	2	12	5	3	55	So God will bless thee and	35 e
C	3	08	4	3	56	increase thy store.	36 f
27	3	48	4	3	56	Day lengthened 18 min.	37 g
28	4	36	3	3	57	Castor South at 12 a clock.	38 a
29	5	24	3	3	57		39 b
30	6	12	2	3	58	Little Dog South at 12	40 c
31	7	08	2	3	58	Great Dog south at 12.	41 d

The Dominion of the Moon over the Parts of Mans
Body passing under the twelve Signs of the Zodiac.
Head and Face.

♈ Neck and
throat
♋ Breast, sto-
mack and
ribs
♊ Bowels
and belly
♏ Secret
members
♑ Knees



♊ Arms and
shoulders
♌ Heart and
back
♎ Reins and
loyns
♏ Thighs
♑ Legs
♓ Feet

♈ The eager Ram rules both the Head and Face;
♉ The Neck and Throat is fulten Taurus's place,
♊ Resembling Twins the Arms and Shoulders guide,
♋ The slow pac'd Crab, the breast, the spleen, and side.
♌ The Heart and Back's the gen'rous Lion's share,
♍ The Bashful Maid of Belly and Bow'ls takes care,
♎ To the just Ballance Reins and Loyns belong,
♏ The Secret's govern'd by the Scorpion.
♐ The Ivory Thighs the Archer doth affect;
♑ The Goat our complemental Knees protect,
♒ The nimble Legs r'Aquarius lot dothfall:
♓ The active Feet to Pisces, and there's all.

Thus doth the vertue of these Signs superiour,
Rule o're the Bodies of poor Wights inferiour;
But both are govern'd by God's sovereign might,
He's happy then that understands them right.

Sapient dominabitur Astvis.

Bowker, 1680.

A Table for the Purchase of Leases of
Lands, or Houses, ready cash up at
5 l. 6 l. 8 l. and 10 l. Per Cent.

Compound Interest.

	At V. Per Cent.		At VI Per Cent.		At VIII Per Cent.		At X Per Cent.	
	Years Mon.		Years Mon.		Years Mon.		Years Mon.	
1	0	11	0	11	0	11	0	11
2	1	10	1	10	1	9	1	9
3	2	9	2	8	2	7	2	6
4	3	7	3	6	3	4	3	2
5	4	4	4	3	4	0	3	9
6	5	1	4	11	4	7	4	4
7	5	9	5	7	5	2	4	11
8	6	6	6	2	5	9	5	4
9	7	1	6	10	6	8	5	9
10	7	9	7	4	6	9	6	2
11	8	4	7	11	7	2	6	6
12	8	5	8	10	7	11	7	1
13	9	5	9	9	8	7	7	7
14	10	3	10	6	9	1	8	0
15	11	1	11	2	9	7	8	4
16	12	10	11	9	10	0	8	11
17	12	6	12	4	10	4	9	1
18	13	1	12	9	10	8	9	3
19	14	2	13	3	11	9	9	4
20	14	2	13	7	11	2	9	6
21	15	7	13	11	11	4	9	9
22	15	1	15	1	11	11	9	10
23	16	3	15	9	12	3	9	11
24	16	11	16	2	12	4	10	0
25	17	4	16	5	12	5	10	0
26	17	7	16	6	12	6	10	0
27	18	9	16	7	12	6	10	0
28	18	0	16	8	12	6	10	0

The Number of Years to be Purchased

The Value of the Purchase in

The Value of the Purchase in

The Value of the Purchase in

The Value of the Purchase in

A Table of Interest at 6 per Cent.

Lib.	1. Month			2. Months			3 Months			4. Months			5. Months		
	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.	li.	sh.	d.
1000	5	0	0	10	0	0	15	0	0	20	0	0	30	0	0
900	4	10	0	9	0	0	13	10	0	18	0	0	27	0	0
800	4	0	0	8	0	0	12	0	0	16	0	0	24	0	0
700	3	10	0	7	0	0	11	10	0	15	0	0	22	0	0
600	3	0	0	6	0	0	10	0	0	14	0	0	21	0	0
500	2	10	0	5	0	0	9	0	0	13	0	0	19	0	0
400	2	0	0	4	0	0	8	0	0	12	0	0	18	0	0
300	1	10	0	3	0	0	7	10	0	11	0	0	17	0	0
200	1	0	0	2	0	0	6	0	0	10	0	0	16	0	0
100	0	10	0	1	0	0	5	10	0	9	0	0	15	0	0
90	0	9	0	0	18	0	1	7	0	1	16	0	2	14	0
80	0	8	0	0	16	0	1	4	0	1	12	0	2	8	0
70	0	7	0	0	14	0	1	1	0	1	8	0	2	2	0
60	0	6	0	0	12	0	0	18	0	1	4	0	1	16	0
50	0	5	0	0	10	0	0	15	0	1	0	0	1	10	0
40	0	4	0	0	8	0	0	12	0	0	16	0	1	4	0
30	0	3	0	0	6	0	0	9	0	0	12	0	0	18	0
20	0	2	0	0	4	0	0	6	0	0	8	0	0	12	0
10	0	1	0	0	2	0	0	3	0	0	4	0	0	6	0
9	0	0	10	0	1	9	0	2	7	0	3	7	0	5	0
8	0	0	9	0	1	7	0	2	4	0	3	2	0	4	0
7	0	0	8	0	1	4	0	2	0	0	2	9	0	4	0
6	0	0	7	0	1	2	0	1	9	0	2	4	0	3	0
5	0	0	6	0	1	0	0	1	6	0	2	0	0	3	0
4	0	0	5	0	0	9	0	1	2	0	1	7	0	2	0
3	0	0	3	0	0	7	0	0	10	0	1	2	0	1	0
2	0	0	2	0	0	5	0	0	7	0	0	9	0	1	0
1	0	0	1	0	0	2	0	0	3	0	0	4	0	0	0

The Use of this Table.

Example, To find the Interest of 70 l. for 6 months: Find 70 l. in the first Column, and right against it, in the Column of 6 months, is 2 l. 2 s. and so much is the Interest. For the Interest of the same sum in 9 months, look for the Interest in 3 months, which is 1 l. 1 s. this add to the Interest for 6 months, the sum is 3 l. 3 s. the Interest of 70 l. in 9 months. Also to find the Interest of 75 l. for 3 months: First, look the Interest of 70 l. for 3 months, which is 1 l. 1 s. Likewise the Interest of 5 l. for 3 months, is 1 s. 6 d. this added to 1 l. 1 s. maketh 1 l. 2 s. 6 d. which is the Interest of 75 l. for 3 months.

Of

OF THE
FOUR QUARTERS,
Or SEASONS of this
YEAR 1680.

Of the Vernal or Spring Quarter.

THis Quarter commenceth upon Tuesday the 9th of March at 50 min. after 2 in the Afternoon, at which time the Sun enters into the first scruple of the Northern Equinoctial Sign *Aries*, making the days and nights to be of equal length all the World over, except in the two Frigid Zones, where they have continual day, and consequently continual night for many Weeks or Months together, according as they are removed from either Pole. — The proper nature and quality of this Quarter is *hot and moist*: *Hot* in respect of the Suns ascending, and *moist* in respect of the Winters vicinity.

*Now do the Birds begin to warble forth
Sweet Notes, to welcome Phebus to the North:
He to requite them, cloatheth with rich green,
All Trees and Plants which erst were russet seen:
And by his quickning vertue, doth produce
A new supply of all things for man's use.*

Of the Aestival or Summer Quarter.

THis Quarter taketh its beginning upon Sunday the 11th of June, at 5 in the morning; the Sun having then arrived to his farthest Northern Declination, and is entering into the Northern Tropical Sign *Cancer*; making the days longest, and the nights shortest, to all the Northern Inhabitants of the World; and the contrary to those that possess the Southern Hemisphere. The Nature of this Season is *hot and dry*.

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Now do the Fields with bearded Grain waxe White,
And Husbandmen o'joy'd to see the sight :
Up Sluggard, sleep not, make ye haste to Hay;
Whilst Tican beateth, work without delay.
For careful Husbands, that intend to thrive,
Must with the Bee, bring Honey to the Hive.

Of the Autumnal or Harvest Quarter.

Autumn begins this year upon Sunday the 12th of September, at 10 of the Clock in the Forenoon, the Sun at that time entering into the Southern Æquinoctial Sign Libra, making again the day and night of equal length all the World over; and is now beginning to take his Journey Southward towards the Antartick Pole. This Quarter is naturally cold and dry.

Now Sol from his Imperial Throne descendeth,
And towards th' Antartick Pole his Journey bendeth:
At whose departure, every Plant and Tree,
For grief, doth cast aside its bravery.
And sadly mourning, cannot like nor thrive,
Till he return, and them again revive.

Of the Hyemnal or Winter Quarter.

The Winter Quarter begins this year upon Saturday the 11th of December, about 6 in the morning; the Sun being then arrived to his greatest Declination from the Æquinoctial Southward, and is entered into the Southern Tropical Sign Capricorn; making the shortest days and longest nights to the Northern, and the contrary to the Southern Inhabitants. This Quarter is naturally cold and moist.

See how the silly sapless Trees do shiver,
For want of Kingly Sol their comfort giver;
And how Dame Flora in her Mother Earth,
Doth shroud her self from blust'ring Boreas's breath:
And dares not peep, until he back return
To quicken Mortals, dead with Hyem's spurn.

Having

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Having thus given you a full and large Account of the Commencement, Continuance, Nature, Quality, and Signification of the Four Seasons or Quarters of the YE A R : I shall here present you with a Philosophical T A B L E , shewing

The Agreement of several Things in Nature.

Four ELEMENTS.	Dry F I R E	Moist A I R.	Moist WATER.	Dry EARTH
4 Seasons	Summer	Spring	winter	Harvest
4 Coasts	East	South	West	North
4 Winds	E. Wind	S. Wind	W. Wind	N. Wind
4 Ages	Childhood	Youth	Old Age	Manhood
4 Humours	Choller	Blood	Pblegm	Melancholy
4 Terms of Nature	Motion	Quantity	Quality	Substance
4 Motions of Nature	Ascension	Circular	Progressive	Descension
4 Kinds of Living } Creatures	Going	Flying	Swimming	Creeping
4 Spirits of Animals	Animal	Vital	Generative	Natural
4 Parts of Mans Body	Veins	Nerves	Flesh	Bones
4 Kinds of Constitutions	Impetuosity	Agility	Remissness	Slowness
4 Perfect compound } Bodies	Animals	Plants	Minerals	Stones
4 Inward Senses	Understanding	Reason	Imagination	Feeling
4 Outward Senses	Sight	Hearing	Smell or Taste	Touching
4 Elements of Man	Soul	Spirit	Life	Body
4 Moral Vertues	Justice	Temperance	Prudence	Fortitude
4 Parts of Herbs	Seed	Flower	Leaf	Root
4 Quarters of the Moon	Decrease	Full Moon	New Moon	Increase
4 Quarters of the Day	Morning	Noon	Evening	Midnight
4 Triplicities of the Signs	♈ ♉ ♊	♈ ♉ ♊	♈ ♉ ♊	♈ ♉ ♊

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Of the Eclipses this Year 1680.

THE Eclipses that will happen this Year, will be only Two, and both of them of the *Sun*; the one of them happening at the time of the New Moon in *March*, and the other at the time of the New Moon in *September*: But neither of these Eclipses will be conspicuous in our Horizon, and therefore I shall say no more concerning their beginning, continuance, and ending: For concerning the Effects portended by them, is not my business.

A Continuation of the Refutation of the Copernican Opinion concerning the Earths Motion.

IN the Year 1678 I presented you with a brief View of the Principles of *Astronomy*, and chiefly of such as concern the *Natural*, *Annual*, and *Diurnal Motions* of the Planets, and in the Discourse of them I began this *Refutation* of the *Copernican Opinion* concerning the *Earths Motion*: And in that Years Essay I only treated of the *Earths Motion*. — In the Year 1679, I continued the same Discourse, and treated of the *Motions* of the *Moon*, *Venus*, and *Mercury*. — And now I shall make a farther Progress, and come to treat of the *Motions* of the

Three

Three Superiour Planets, *Saturn*, *Jupiter*, and *Mars*; of the *Fixed Stars*: Of the *Christalline Heaven*, and *Primum Mobile*.

5. Of the Three Superiour Planets, *Saturn*, *Jupiter*, and *Mars*.

These three Planets are accounted by all Astronomers to be farther from the Earth, than the Sun. As for the Motions of these Planets, though their daily motions are swifter than the other Planets, being farther distant from the Earth, yet their periodical motions are more slow, and according to their distance from the Earth, so is their slowness. For *Mars*, the nearest of these three, finisheth his course in one year 322 days. *Jupiter* the next, in 11 years 318 days. *Saturn*, the farthest, in 29 years 174 days; in these times they run thorow the 12 Signs in their Ecliptick.

Besides these motions, there is also a retrograde motion, which not only those three, but *Venus* and *Mercury* are subject to. Indeed the *Sun* is exempted from it (as it were by extraordinary priviledge) and the *Moon* avoids it by her swift motion: but *Mercury* and *Venus*, though in their mean motion equal to the *Sun*, yet are often driven backward.

Mercury is the most often subject hereunto of all the Planets, being very inconstant in his motion; running over this motion every 116 days, being direct 92 days, and then retrograde 24 days. *Saturn* is more constant and serious in his walk, renewing this motion once in 378 days; being direct

rect 238 days, and retrograde 140 days. And *Jupiter* his next neighbour, as it were to keep him company walks this round in 399 days, going forward 279 days, and then backward 120 days. But warlike *Mars*, as scorning to turn his back, marches on furiously for 700 days together, yet then he is forced to countermarch as fast for 80 days. Lastly, dame *Venus*, proud of her beauty, which she is loath to have too long hidden, or fears will be too much burned by the *Sun*, runs as fast as she can before him for 542 days; but when she sees the *Sun* will over-take her, she turns about and runs the contrary way for 42 days, that so the *Sun* may the sooner over-shoot her, and she may again shew to the Earth her glorious lustre. These motions you may evidently see in these Planets, if you observe their situation nightly in respect of the Fixed Stars, but the farther ground and demonstration hereof, I have not time to speak of.

Lastly, For the distance of these three Planets from the Earth *Mars* is distant 1745 semidiameters, *Jupiter* 3990, *Saturn* 10550, which being granted their distance, breadth, and compass in miles is thus:

	Distance,	Breadth,	Compass.
<i>Mars</i>	6950385	3336	10184
<i>Jupiter</i>	15892170	12800	40228
<i>Saturn</i>	4220550	21920	68891

6. Of the Fixed Stars.

I call these Stars fixed, not because they are void of all motion, but because they keep their places very exactly one in respect of another. Inasmuch that those

those Stars which were observed to be in a right line by *Hipparchus* 1700 years ago, were found so by *Ptolemy* in his time 1300 years ago; and continue in the same posture still, as you may see by many examples in *Tycho*, lib. 1. p. 134. Therefore it is very probable that they all are fixed in one Sphere, and are all equally distant from the Earth, since they are so uniform in their motions.

The motions of these Stars are two: The one daily from East to West, the other yearly according to the order of the Signs. In their daily motion they are exceeding swift; for the compass of their Heaven is above 350000000 of miles, so that those Stars which are towards the Equator, must move 240000 miles every minute of an hour. But in their other motion they are exceeding slow, not moving one whole minute in a year, but only one degree in 70 years; so that they will be 25000 years in making their progress through the 12 Signs. This motion by the ancient Astronomers was thought to be finished in 36000 years, and is called by some the *Platonick year*: At which time, according to their opinion, all the Stars having finished their revolutions, shall return unto their first places; and that all other things shall return with them again to the same order wherein they were. But this opinion is very vain: for neither will the motions of the Planets and Stars, calculated together, agree to such a revolution. And the Apostle *Peter* affirms, *That both the heavens and the earth which now are, shall be destroyed with fire at the*

the last day; 2 Pet. 3. 6. which will certainly be long before this Period.

Concerning the number of the Stars, though it be great, yet it is not infinite. Astronomers take notice only of about 1000, which are the most conspicuous, and though sometimes in a clear Winter night many more little ones may be perceived, yet they cannot certainly be observed; and those aforesaid seem many more than they are.

The ancient Astronomers, the better to distinguish and describe these Stars, have drawn them upon their Globes and Maps in 48 Images; so that every Star comes to have a name from that part of the Image they are placed in: as the *Bulls Eye*, the *Lions Heart*, and such like. Some Modern Astronomers have added 12 Constellations more towards the South Pole, which were not known to the Ancients.

Another way whereby these Stars are distinguished, is by their several bignesses, and to this purpose they rank them into 6 magnitudes. This distinction is far more apparent than the other, the Constellations being only Poetical and Imaginary, this difference real and visib'e. But though the biggest of these Stars seem little in regard of their great distance from us, yet are they of wonderful greatness. For if you reckon only their distance, according to *Tycho*, to be 14000 semidiameters of the Earth (whereas *Ptolomy* allows 20000) this reduced into Miles, yields 55762000. Which being supposed, their breadth and compass, according

ing to their visible Diameters, will be as followeth;

	Breadth	Compass	Number
1	32342	101043	15
2	24256	76232	45
3	16843	52935	208
4	12128	38116	474
5	08085	25410	217
6	05090	16941	49

Hereby you see, that the smallest Stars are almost as big as the Earth, the compass of the Earth being 25036 miles, as we shewed before. The next sort are full as big, or bigger, and all the rest in order, far exceed the Earth. So that a Star of the first order is four times the breadth and compass of the Earth; which cubically considered, renders the Star 65 times greater than the Earth. Thus the least things in Heaven are great, though they seem small; and the greatest things on Earth are small, though they seem great. Let this teach us to esteem of things, not as they seem, but as they are.

7. Of the Christalline Heaven.

This is fildly called the Watery Heaven, whose place is above the Stars: For though no such thing is apparent to our eyes, yet the Scriptures make frequent mention of it. This was the work of the second day in the Creation, Gen. 1. 6, 7. Again, God said, Let there be a Firmament in the midst of the Waters, and let it divide the Waters from the Waters. Then God made the Firmament, and separated the Waters which were under the Firmament, from the Waters which were above the Firmament. This, though

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though some interpret of the waters in the clouds, yet it cannot be so meant, for the clouds are far below the Firmament, those waters are above it. Besides, the Clouds are but vapors arising daily out of the Earth. And though this may seem strange to sense or reason, yet it is the best way in the point to resolve with *Du Bartas*,

*I'll rather give a thousand times the ly
To mine own reason, than but once deny
The sacred voice of that non-erring Spirit,
Which doth so plainly and so oft aver it,
That God above the highest Firmament,
I wot not, I, what kind of waters pent.*

Psal. 104. 3. Psal. 148. 4.

And the better to perswade you to this, consider what he saith afterwards;

*I see not why mans reason should withstand,
Or not believe, that God, whose powerful hand
Bay'd up the Red Sea with a double Wall,
That Israel's Host might 'scape Egyptian thrall:
Could prop as sure these waters thus on high,
Above the Heav'n's Starry Canopy.*

And here, by the way, let those who plead for the motion of the Earth, and the standing still of the Sun, contrary to the constant phrase of the Holy Scriptures, see what force is in their excuse, as if the Scriptures in these things speak only according to our Common Senses and the Vulgar Opinion; and not the real Truth, according to Nature and Art, to inform our Judgments. I am sure in this point the Scripture speaks a Truth, which passeth both the Sense and Art of Man to apprehend. And

not only in this one particular, but many other things, there are set down in the Creation, which are above, though not contrary to the rules of Philosophy: As that there should be day, three days before the Sun. That the trees and plants should spring and grow without the Sun, which is the natural cause of their production. That the Bird should be before the Egge, which is preposterous in natural generation: Yet these things we ought to believe, much more such things as are more conformable to our sense and common experience.

What may be the use of these Waters, is very difficult to determine, the Scriptures herein being silent. Some think they were partly used for the drowning of the Old world: For it cannot be made good that so much water could probably descend from the clouds, the waters being above the highest mountain, and many of these mountains being higher than the clouds themselves. Neither is this phrase used to set forth the rain that comes from the clouds.

Others think that those waters are placed here for the cooling of the Firmament, which else would be set on fire by its swift and continual Motion; and that the daily consumption of these waters, will be a secondary cause of the burning of the Heavens and the Earth at the last day. But these things are uncertain. The best use of them is set forth by the Prophet, *Psal. 148. 4. Praise the Lord ye heavens of heavens, and ye waters which are above the heavens.*

8. *Of the First Moving Heaven.*

Above all these (by the opinion of many) there is a great vast sphere incompassing all the rest, which is called the *First-moving Heaven*; this is supposed to move round every 24 hours, & therewith to carry round about all the Stars and Planets every day. But as this is above our senses to perceive it, so the reasons they bring to prove it, are not of sufficient force. And I rather think that God hath indowed these celestial bodies with an inward power to perform their several motions. For though they are not living creatures, as some have imagined; yet they may have a propensity to move to a certain point or in a circular motion; as we see the Load-stone doth, being fitly placed.

For suppose those Heavens or heavenly Bodies had need of any outward cause of their motions: yet how can this *Primum Mobile* yield them any help therein. For though it might move the highest Firmament wherein the Stars are, and which keep a uniform motion among themselves, yet how can it move the Planets which are farther from it, and have so many several motions? They answer to this, that the diversity of their motion proceeds from their distance from this First Mover, which thereby hath the less force over them, to hinder them in their proper motions from the West to the East. But to this it may be replied, that if they have a power of themselves to perform the one motion, why can they not perform the other daily motion likewise by their own power.

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Bowker, 1680.

The resolution of these motions might much better depend upon the daily motion of the Earth upon its own Axis; and did not the Scriptures to oppose this motion, I should willingly assent thereunto. But I shall find this one Argument more against this opinion of the Copernicans. For they supposing the Earth to be a Planet, how then can they think that the Earth should have any other motion than the rest of the Planets? Now that the other Planets have no such diurnal motions upon their own Axis, is apparent by the Moon; which if she had any such motion, the spots in the Moon would not appear always in the same place of the Moon as they do, both on the East and West of the Meridian: For if the Moon were turned round, these spots would be sometimes on the one side, and by and by on the other. But if you observe these spots, you shall find the picture of the Man in the Moon, continually on the Western side of the Moon; and though some variation it may have in respect of the vertical point, yet in respect of the Pole of the *Ecliptick*, it keeps the same place very exactly, just as the horns of the Moon do in the prime and later part of the Moon.

Thus I have ascended to the highest parts of the visible Heavens, and have (I hope) in some measure performed my promise: What remains for the further demonstration of these things, I have neither time nor room to declare; neither is it so proper for this place.

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